

PD-000 SYNTH Premium (Specially for Worm Gears, Dyno Runs & Rams)

DESCRIPTION

PD-000 SYNTH PREMIUM is a premium high quality synthesized technology grease specially developed for heavy-duty spur, bevel, planetary and worm gears, good load-carrying capacity and viscosity-temperature-behavior, to withstand extremely heavy load, slow moving, large open gear drive excellent wear protection, very high ageing resistance, reduces friction loss in the gear, allows extended oil changing intervals. **PD-000 SYNTH PREMIUM** grease offers sufficient protection to gears that are subject to high loads and would normally be susceptible to this type of damage. Gears are sufficiently protected against scuffing even at under extremely high and shock loads, vibrations or oscillations, or if no running-in was performed. Lubrication of highly stressed and relatively slow running gears where due to leakage a grease must be used instead of oil. The major benefits of **PD-000 SYNTH PREMIUM** grease coat the bearings and provide protection from dirt and water contamination while being thin enough to act as a superior lubricant and increase the lifespan of your gear. The excellent wear protection of both gears and rolling bearings ensures that the service life calculated for the lubricated components is achieved, leading to lower maintenance and repair costs.

PRODUCT CHEMISTRY

PD-00 SYNTH PREMIUM grease contains PAO based Ester solid lubricants and Special Metal Complex thickener grease designed with combination of high viscosity Synthetic Polyglycol & Mineral virgin base oil for satisfying the growing requirements and increasing power density of modern gear with anti-wear packages (anti-oxidants & anti-corrosion) and EP additives fortified with synergistic combination (synthetic technology) in a heavy duty, high film strength. Due to its high solid content, it will not slide down the shank of the tool during its operation.

COMSUMPTION & COST SAVINGS

By using **PD-000 SYNTH PREMIUM** grease you can benefit from a number of advantages that will help you save costs easily and efficiently. The **PD-000 SYNTH PREMIUM** grease has very low consumption savings up to 70% to 80% compared to other gear oils and up to 20% to 30% compared to other greases is much effectively lubrication. Corresponding gears can be switched to **PD-000 SYNTH PREMIUM** grease without prior consultation with the gear manufacturer provided the general application.

ADVANTAGES /FEATURES /BENEFITS

- Anti-wear & EP additives protect against metal-to-metal contact and increasing gear and bearing life.
- Prevents leakage with angled or vertical shafts due to good adhesion on metallic surfaces, Assures maximum protection against corrosion of metal parts. Keeps parts in good condition for extended service intervals. It protects against oil film displacement with water and lubricant breakdown due to moisture contamination. Helps keep product from running out of gearbox and water from getting in.
- Its Semi-fluid properties help keep flowing structure prevents grooving in gear units with continuous coverage of surfaces from running out of gearbox and water from getting in & Effective in leakage control. Thins down when worked and thickens up after sitting, preventing channeling and allowing good flow back and heat transfer around bearings and gears. At the same time, it remains thicker at the outer areas of the gearbox to help with sealing, again to keep moisture out and lubricant in.
- This grease is extremely sticky & long-term lubrication due to excellent resistance to water washout, oxidation and ageing, allowing it to form a grease seal on worn shafts keeping grease in and water out. Keeps lubricant on metal parts not allowing dry starts or moisture contact.

APPLICATIONS

- Lubrication of heavy loaded toothed gears and worm gears exposed to outdoor conditions and/or low temperatures, as well as tilted or vertical shafts, rams in mechanical presses especially with gear designs which are not oil tight spur and bevel gears (e.g. gear motors, small gears), worm gears with steel/ steel components as well as toothed couplings
- Lubrication of friction bearings with minimal bearing clearance or high circumferential speeds
- Lubrication of highly stressed and relatively slow running gears where due to leakage a grease must be used instead of oil for gear drives under high and shock loads
- It is also suitable for the lubrication of friction bearings, slideway, guides and large chain drives with minimal bearing clearance or high circumferential speeds.

APPLICATION INDUSTRY - Iron and steel industry / Paper and packaging industry / Logistics / Rubber and plastic processing / Chemical industry / Rail vehicle technology / Plant and machine (tool) engineering / Glass and foundry industry / Shipbuilding and marine technology / Municipal services.

PROPERTIES OF PD-000 SYNTH PREMIUM GREASE

NLGI GRADE	000
Work Penetration	430-450
Colour	Red tacky
Appearance	Smooth & buttery
Thickener Soap	Special Metal-Complex
Solid Lubricants	10% to 15% PAO based Ester solid lubricants
Viscosity at (40°C)	320, 460, 680
Base Oil Chemistry	Mineral oil & Polyglycol & Synthetic base oil
Drop Point	184
Lower operating temperature	-30°C
Upper operating temperature	-150°C
4 Ball Weld Load in kgs	400 to 500

APPLICATION TIPS

For best results clean the lubricating point carefully with cleaner. Remove the corrosion protection before initial filling. Fill the gear in a way that all the functional surfaces for sure transport the grease. Observe the instructions of the bearing or machine manufacturer. Relubrication with an automatic lubrication system or, if necessary, with a brush or spatula. Relubrication intervals and amount to be defined acc. to the service conditions. If the removal of the old grease is not possible the amount of grease has to be limited to avoid excess lubrication of the gear. At longer relubrication intervals a complete exchange of the old grease is recommended. Mix with appropriate lubricants only.



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